

**Report To:**

Connecticut Pharmaceutical Solutions
 Attn: *Rino Ferrarese, Mark June-Wells*
 & *Kim Provera & Nancy Poltrack*

47 Lower Main St
 Portland CT 06480

Date Received: 4/26/2016 & 5/03/2016 ★

Date Tested: 4/27/2016 & 5/03/2016 ★

Laboratory Report#: N1665867-01 & #N1665915-04 ★

Report Date: 5/05/2016

Report Update: 5/09/2016 ★

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Sample Site:	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT	★ = UPDATE: 5/09/2016 page #1 == microbiological parameters = Retest ★
Date Collected:	4/26/2016 11:45	Collected by: CA of NELabs
Laboratory ID #:	1665867 - 01	5/03/2016 11:04 AM 1665915 - 04
Product Description:	LMS 010716	LMS 010716-M (retest)

Parameter	Result	Units	Recommended Limits *
Total Aerobic Microbial Count ★	3,600	per gram	PASS 100,000
Total Yeast & Mold Count	<100	per gram	PASS 10,000
Bile Tolerant Gram Negative Bacteria ★	<100	per gram	PASS 1,000
Coliform ★	<100	per gram	PASS 1,000
Enteropathogenic E.coli	Not Detected	per gram	PASS Not Detected
Salmonella species	Not Detected	per gram	PASS Not Detected

* **RECOMMENDED LIMITS:** per American Herbal Pharmacopoeia (2013)

PASS = Product meets Microbial and Fungal Recommended Limits
 per American Herbal Pharmacopoeia (2013)

METHODS: USP 2021, USP 2022, FDA-BAM, AOAC 996.09

Comments:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/26/2016 & 5/03/2016 ★

Approved By:

Alan C. Johnson, Laboratory Director

Northeast Laboratories, Inc. 129 Mill Street Berlin, CT 06037 www.nelabsct.com

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 CT Cert. #PH-0404 EPA Cert. #CT-024 USDA Cert. #0976 FDA Reg. #086650488 DEA Reg.: Federal #RN0281852 + CT #624

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Date Received: **4/26/2016**Date Tested: **5/03/2016 to 5/04/2016**
Laboratory Report#: **N1665867 - 01**Report Date: **5/05/2016**

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<u>Sample Site:</u>	CONNECTICUT PHARMACEUTICAL SOLUTIONS • 47 LOWER MAIN STREET, PORTLAND CT		
<u>Date Collected:</u>	4/26/2016 14:20	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665867 - 01</u>		
<u>Product Description:</u>	LMS 010716		

HEAVY METALS:

<u>Parameter</u>	<u>Result</u>	<u>Units</u>		<u>Limits</u>
Arsenic, Total	<0.0005	µg/kg BW/day	PASS	<0.14
Cadmium, Total	<0.002	µg/kg BW/day	PASS	<0.09
Lead, Total	<0.002	µg/kg BW/day	PASS	<0.29
Mercury, Total	<0.005	µg/kg BW/day	PASS	<0.29

Daily Dose: 1 gram
Body Weight: 50 kilograms

METHODS: USP <232> and <233> (Modified)
AOAC 986.15, 935.50, 971.21
FCC 7, Appendix 3

LIMITS: per American Herbal Pharmacopoeia (2013)

PASS = Product meets Heavy Metals Recommended Limits
per American Herbal Pharmacopoeia (2013)

Comments:

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<u>Product Description:</u>	LMS 010716		

<u>TERPENE PROFILE</u> <u>(% Dry Weight)</u>	<u>Result</u>	<u>Units</u>
<u>Monoterpenoids</u>		
a-pinene	---	%
b-pinene	---	%
b-myrcene	0.03	%
limonene	0.02	%
ocimene	---	%
terpinolene	---	%
linalool	---	%
<u>Sesquiterpenoids</u>		
b-caryophyllene	0.81	%
humulene	0.46	%
trans-nerolidol	---	%
caryophyllene oxide	---	%
b-eudesmol	0.81	%

METHODS: GC, GC/MS

Comments:

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Date Received: **4/26/2016**Date Tested: **5/02/2016**
Laboratory Report#: **N1665867 - 01**Report Date: **5/05/2016**

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<u>Date Collected:</u>	4/26/2016 14:20	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665867 - 01</u>		
<u>Product Description:</u>	LMS 010716		

PESTICIDES LC (MS/MS)				
Parameter	Result	Units		Limits
Abamectin	<0.01	mg/kg	PASS	15
Acequinocyl	<0.01	mg/kg	PASS	14
Azadiractin	<0.01	mg/kg	PASS	60
Bifenazate	<0.01	mg/kg	PASS	6
Bifenthrin	<0.01	mg/kg	PASS	12
Chlormequat Chloride	<0.01	mg/kg	PASS	30
Cyfluthrin	<0.01	mg/kg	PASS	12
Daminozide	<0.01	mg/kg	PASS	270
Etoazole	<0.01	mg/kg	PASS	24
Fenoxycarb	<0.01	mg/kg	PASS	32
Imazalil	<0.01	mg/kg	PASS	6
Imidacloprid	<0.01	mg/kg	PASS	36
Myclobutanil	<0.01	mg/kg	PASS	18
Paclobutrazol	<0.01	mg/kg	PASS	13
Pyrethrum	<0.01	mg/kg	PASS	3
Spinosad	<0.01	mg/kg	PASS	12
Spiromesifen	<0.01	mg/kg	PASS	15
Spirotetramat	<0.01	mg/kg	PASS	30
Trifloxystrobin	<0.01	mg/kg	PASS	60

LOQ = 1.0 µg/kg LOD = 0.1 µg/kg

METHODS: LC – MS/MS (Restek Method)**LIMITS:** per FAO - WHO**Comments:**

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Date Tested: **4/29/2016**
Laboratory Report#: **N1665867 - 01**

Report Date: **5/05/2016**

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<u>Product Description:</u>	LMS 010716		

MYCOTOXINS			
Parameter	Result	Units	Limits
<i>Method: USP 561-II</i>			
Aflatoxin B1	<5	µg/kg	PASS 5
Aflatoxin B2	<5	µg/kg	PASS 5
Aflatoxin G1	<5	µg/kg	PASS 5
Aflatoxin G2	<5	µg/kg	PASS 5
<i>Method: USP 561-II (Mod)</i>			
Ochratoxin-A	<5	µg/kg	PASS 5

METHODS: USP <561>

Articles of Botanical Origin: Aflatoxins Method 2 (modified for Ochratoxin)

LIMITS: per American Herbal Pharmacopoeia (2013)

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Date Received: **4/26/2016 = Retest: 5/03/2016**

Date Tested: **Retest: 5/03/2016**
Laboratory Report#: **N1665867 – 01**
=Retest: N1665915 - 07

Emailed by C.Appell: **5/02/2016 = Retest: 5/03/2016**
Report Date: **5/05/2016**

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<u>Date Collected:</u>	4/26/2016 14:20	Collected by: CA of NELabs	
<u>Laboratory ID #:</u>	<u>1665738 – 01 == Results per Retest Sample #1666915-08</u>		
<u>Product Description:</u>	LMS 010716 - B		

= Retest # 1665915-07			
CANNABINOIDS (% weight)		Result	Units
	CBDV	----	% weight
	CBDA	----	% weight
	CBGA	1.15	% weight
	CBG	----	% weight
	CBD	----	% weight
	THCV	----	% weight
	CBN	----	% weight
	THC	0.75	% weight
	CBC	----	% weight
	THCA	29.02	% weight

METHODS: HPLC

Comments:

- Results are based on sample/s submitted to Northeast Laboratories, Inc. on: 4/26/2016 with Retest Sample on 5/03/2016

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